RID001194323

18-0315-50

DASF Composation 100 Fark Ave Florham Park, NJ 07932

180 Mill St. Cranston, RI 02905

Rhode Island Resource Recovery 65 Shun Pilce Johnston, RI 029191

RID980520163

Non-POT/Non-RCRs Regulated Soil

1) 20151002-180MILLStreet Soil

NOTE THE PROPERTY OF THE PROPE Weight is estimated

Rate code 132

JAN TYON I MOJAR

	3.0										
1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency Respons			racking Num	ber	EEA	
	5. Generator's Name and Mailing	Address RID001:	194323	1	Generator's Site Address	e (if different t	han mailing addr	nee)	5-0-57	D-DU	
PER 1992	5. Generator's Name and Mailing Address BASE Corporation 100 Park Ave Floring Park, BJ 07932 Generator's Phone: 130 Mill St										
	Transporter 1 Company Name	3 245-5269 / CAAA	+ GAS	1021	Cranston	, RI O	U.S. EPA ID	Number			
9	7. Transporter 2 Company Name	J 7774		U.S. EPA ID	Number						
	Designated Facility Name and	Site Address	(A)				U.S. EPA ID	Number			
	Facility's Phone:	// Rhc 65 Joh	1	RI	D98052	20183					
	307	942-1430			10. Con	tainers	11. Total	12. Unit			
	Waste Shipping Name	and Description			No.	Туре	Quantity	Wt./Vol.			
GENERATOR -	1. Won-DOT/	Non-RCRA Regulat	ed Soil		, / / · /i	, , _D	₁ 30	7			
GEN	2.										
-copyright-	3.										
				Charles .							
	4.							No.			
	13. Special Handling Instructions	and Additional Information					economic and the				
		eight is estimat			1) 2018:	1002-18	OMILISTY	cet Soi	1		
	Rate code 13										
	de	4									
	14. GENERATOR'S/OFFEROR'S	S CERTIFICATION: I hereby dec	lare that the contents of thi	is consignment ar	e fully and accurately de	escribed above	by the proper sh	nipping name,	and are classif	fied, packaged,	
	marked and labeled/placarde Generator's/Offeror's Printed/Typ	d, and are in all respects in property	er condition for transport ac		7	tional governm	nental regulations	3.	Month	Day Vaar	
V	Generalor stoneror s Printed Typ	ment AS Age	LC-BAS	F) 1/	pature dun	11/61	in Ost		Month 1 la	Day Year	
T.L -	15. International Shipments	Import to U.S.	NTTO NO	Export/from U	I.S. Port of e	entry/exit:	ener		10	218	
INT'L	Transporter Signature (for export	s only):				ving U.S.:					
FER	16. Transporter Acknowledgment			6:		1)				
OR	Transporter 1 Printed/Typed Nam	3 - 7 11		Sign	nature ///	(M	1	(Month	Day Year	
NSF	Transporter 2 Printed/Typed Nam	ne Sylvina	suntanti di Santanti di Sa	Sign	nature	DUN	m	to seed or	Month	1 60	
TRANSPORTER				1							
A	17. Discrepancy		Jakk Stran				5		APPENDE NO.		
	17a. Discrepancy Indication Space	Ce Quantity	Туре		Residue Manifest Reference	Number	Partial Re	jection	/	Full Rejection	
7	17b. Alternate Facility (or General	ator)			Manifest neterence	raumber.	U.S. EPA ID	Number			
DESIGNATED FACILITY	Facility's Phone:						1				
TED	17c. Signature of Alternate Facilit	ty (or Generator)					11 3 3 3		Month	Day Year	
GNA	part of National Assessment	William Company									
ESIC				tills bear a							
1										A-17 SA-1-3	
	18. Designated Facility Owner or	Operator: Certification of receipt	of materials covered by the	e manifest except	as noted in Item 17a				fie :		
	Printed/Typed Name			ALCOHOL: NO.	nature	1	1		Month	Day Year	
V					16mg	m fr	MINA	1		C. Bernelli	

	- 7-								
A	NON-HAZARDOUS 1. Ge WASTE MANIFEST	enerator ID Number	2. Page 1 of 3. E	mergency Response			racking Num	ber 0241	5.60
	5. Generator's Name and Mailing Add		Gen	erator's Site Address			ess)	3-U0 II	J-JU
	DASF Corporat 100 Park Ave Florham Park, Generators Phone:			BASF Corp	oxatio	nas			
	6. Transporter 1 Company Name	(A A A A	4.1021	sanda sibili basa basa j		U.S. EPA ID	Number		
1	7. Transporter 2 Company Name	SAMO & GIV	4000	THE SERVICE		U.S. EPA ID	Number		
	7. Transporter 2 Company Name					U.S. EPA ID	Number		
1	8. Designated Facility Name and Site	Address	U.S. EPA ID	Number					
	Facility's Phone:	// Rhode Islan 65 Shun Pik Johnston, R	29	Recovery	•		RII	980520	183
	Waste Shipping Name and I	Pagaritian		10. Conta	ainers	11. Total	12. Unit		and the
	9. Waste Shipping Name and t	Description		No.	Туре	Quantity	Wt./Vol.		
GENERATOR -	Mon-DOT/Nor	n-RCRA Regulated Soil	45% 11	1	, ,	30		aC .	- M.
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Section of the second	3.		t.s.						
distant.	4.					A STATE OF THE STA			
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	13. Special Handling Instructions and	Additional Information			SECTION SEC				
	18-0315 Weig	ght is estimated		1) 20181	002-180	MILISTER	est Soi	1	
	Rate code 132								
	0.4								
	dA								
	14. GENERATOR'S/OFFEROR'S CE	ERTIFICATION: I hereby declare that the contents and are in all respects in proper condition for transport	of this consignment are full	y and accurately des	scribed above	by the proper sh	ipping name,	and are classifier	d, packaged,
	Generator's/Offeror's Printed/Typed N	lame	Signature	- /	A //	ontai regulations		Month	Day Year
1	Joshuce Klema	ent-(As Agent-For Br	ASF) LAR	selva A	460	nevt		101	3/18
INTL	15. International Shipments	Import to U.S.	Export from U.S.	Port of er	ntry/exit:				. 0
Acres 1	Transporter Signature (for exports only	ly):		Date leav				- Mariana	
TER	 Transporter Acknowledgment of R Transporter 1 Printed/Typed Name 	Receipt of Materials	Signature	9	1)		Month	Day Year
TRANSPORTER	Thomas B.	COTTUNE.	Gigitatur	1100	MA	5	www.	1/0/1	Day Year
ANS	Transporter 2 Printed/Typed Name	1 0000	Signature	9			ing.	Month	Day Year
IR.									
4	17. Discrepancy						Was .		
	17a. Discrepancy Indication Space	Quantity	ре	Residue		Partial Re	jection	□F	ull Rejection
1	17b. Alternate Facility (or Generator)		No. 16 Acres No.	Manifest Reference N	Number:	110 55: 15	Number		
	176. Alternate Facility (Of Generator)					U.S. EPA ID	Number		
FAC	Facility's Phone:								
ED	17c. Signature of Alternate Facility (or	Generator)						Month	Day Year
ANE									
DESIGNATED FACILITY						No.			
1	18. Designated Facility Owner or Open	rator: Certification of receipt of materials covered b	by the manifest except as n	oted in Item 17a					
	Printed/Typed Name	The second secon	Signature		2	1		Month	Day Year
A			1 /	-wy	2 /12	hins	1		

MATERIAL SAND & STONE CORP.

WASHED SAND AND GRAVEL
618 GREENVILLE ROAD
NORTH SMITHFIELD, R.I. 02896
TEL. 767-3420
232-3010

	DATE /4/7/18	
M	Stratgic Envis	
Address	m11 5+1000	1500
CUBIC YDS		y Williams
	SAND HANTED TO	
	GRAVEL KI. LOCKIII	
	SUB SOIL	
	LOAM	
	FILL	
HOURS	STONES # 100 / 11k	
	SHOVEL DOZER	
	TRAILER (116)	
	васк ное	
	TRUCKS	
	LABOR	
	SALES TAX	
	TOTAL	
REC'D	D BY	SP 5/12

Not Responsible For Any Damage

51401



RHODE ISLAND RESOURCE RECOVERY CORPORATION

CENTRAL LANDFILL 65 SHUN PIKE JOHNSTON, RJ 02919 OFFICE 401.942.1430 FAX 401.946.5174

103254124

RECEIPT DOCUMENT NUMBER

BILL FO

STRA100317 STRATEGIC ENVIRONMENTAL SERVICES, INC. 362 PUTNAM HILL ROAD SUTTON, MA01590-



STRA100317 STRATEGIC ENVIRONMENTAL SERVICES, INC. 362 PUTNAM HILL ROAD SUTTON, MA01590-

DATE	ENTRY	TIME	OPER.	21, 311	EXIT TIME	OPER.	MEASUREMENT		POUNDS	4	TONS	SCALE
10/3/18	11:22	:46	СВ	1	1:23:32	СВ	GROSS	3:	110120		55.06	Scale 2
VEHICLE NU	MBER	VEHICL	E TYPE	PLATE	NUMBER	TRANSACTION TYPE	TARE	:	35800		17.90	P.T.
SS116		Roll O	ff			Inbound	NET		74320		37.16	
CODE				DE	ESCRIPTION		Marking CYEST		QUANTITY	UNITS	UNIT PRICE	AMOUNT
	Solid Waste Soils w Approval Host Comunity Fee 37.16 Ton 180 MILL STREET 10-2-18											
and on the excess of 20	DECLARATION REGARDING WASTE DELIVERY The undersigned declares, under the penalty of perjury that 100% of the solid waste delivered to the Central Landf and on the date above was, was generated and collected in Rhode Island, is not Hazardous Waste and does excess of 20% recyclable material by weight, as defined by DEM regulation, and complies with all applicable laws a Driver Signature:									TOTA	L AMOUNT	, , , ,

A	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of 3	B. Emergency Response	Phone	4. Waste T	racking Num	nber	Marile Th
T	WASTE MANIFEST	RID00119	4323	1	508 75	7-7782			8-0315	48
5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)							ess)			
	BASE Corporation 100 Park Ave Florham Park, NJ 07932 Generator's Phone: 973 245 5269 BASE Corporation 180 Mill St. Cranston, RI 02905									
	6. Transporter 1 Company Name U.S. EPA ID Number									
	7. Transporter 2 Company Name U.S. EPA ID Number									
	8. Designated Facility Name a	and Site Address	2.05			1000	U.S. EPA ID	Number		400
	Facility's Phone:	65 SI	e Island R hun Pike ston, RI	esource 029191	≘ Recovery			RI	D 98 0520:	183
	Waste Shipping Nan			1.49	10. Contai	iners	11. Total	12. Unit		
	1.				No.	Туре	Quantity	Wt./Vol.		
GENERATOR	Non-DOT	T/Non-RCRA Regulated	Soil		1	DT		T		
- GENE	2.									
	3.									
				2.5						
	4.						Sal.			
	13. Special Handling Instruction	ons and Additional Information			1) 201810					
	18-0315 Rate code 1	Weight is estimated								
	11. GENERATOR'S/OFFERO marked and labeled/placar Generator's/Offeror's Printed/	OR'S CERTIFICATION: I hereby declare rded, and are in all respects in proper co	that the contents of this on dition for transport acco	consignment are rding to applicab Signa	le international and nation	cribed above by	y the proper sh ntal regulations	ipping name,		oackaged, Day Year
My -		Klement/Agen		F) IS	asher-	2,10	Emer	x	10	3 18
INT.L	Transporter Signature (for exp	Import to U.S.		Export from U.S	S. Port of ent Date leavi					
1000	16. Transporter Acknowledgm	ent of Receipt of Materials			10000	/				
PORT	Transporter 1 Printed/Typed N	VING1		Signa	ture PV	m			. /	Day Year
TRANSPORTER	Transporter 2 Printed/Typed N			Signa	ture	0			Month E	Day Year
A	17. Discrepancy					70	, , , , , ,			
	17a. Discrepancy Indication S	pace Quantity	Туре		Residue		Partial Re	jection	Full	Rejection
>	17b. Alternate Facility (or Gen	erator)			Manifest Reference N	umber:	U.S. EPA ID	Number		
CILI										
FA(Facility's Phone:		- A							al _{ace}
DESIGNATED FACILITY	17c. Signature of Alternate Fa	cility (or Generator)		- 12	1				Month E	Day Year
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	18. Designated Facility Owner	or Operator: Certification of receipt of m	aterials covered by the m	nanifest excent a	s noted in Item 17a					
*	Printed/Typed Name	S. Sportage Continuous of receipt of the	atorials sovered by the II	Signa		R			Month C	Day Year
169	-BLC-0 5 11977 (Rev	v. 9/09)	444	1-		DE	SIGNATI	ED FACI	LITY TO GEN	ERATOR

18-0315-48

BASE Corporation 100 Park Ave Eloxham Park, #J 07932

BASE Comporation 180 Mill St. Cranston, EI 02905

Rhode Island Resource Recovery
55 Shun Pike
Johnston, HI 029191
491 942-1439

RID980520183

Mon-DOT/Mon-RCRA Regulated Soil

การสาการที่การการกับให้ และสาการสาคา (สาคา ค.ศ. 18-0315 Weight is estimated

Rate code 132

1) 20181002-180MILLS:reet Soil

		No. of Section	1					will be a							
A	Si	NON-HAZARDOUS	1. Generato	r ID Number		2	2. Page 1 of	3. Emergency	Respons	e Phone	4. Waste T	racking Num	ber		
		WASTE MANIFEST		PTDOO	1194323		-1			7-778		11	8-031	54	8
	5.	Generator's Name and Maili	ing Address				(Generator's Si	te Addres	ss (if different t	han mailing addr	ress)			
		BASE Corpo		1											10 P
		100 Park I	arle Ni	07932		10		BASE 180	Cox	porati	On				
		enerator's Phone:	-	-5269	-	16		Czan	ston	, PI o	2905 U.S. EPA ID	Mumbar			
	Ь.	Transporter 1 Company Nar	ne	010	atura.).		Line Son			0.5. EPA ID	Number			
	7	Transporter 2 Company Nar	ne)///	W7 0	MOVEL						U.S. EPA ID	Number			
		Transporter & Company (val										(Valido)			
	8.	Designated Facility Name a	nd Site Addres	s							U.S. EPA ID	Number			
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144	Fa	acility's Phone:		J	ohnston,	RI (129191					PLL	UJUUUL	ULUU	
		10.00	1. 942	1430				I II Siles	10. Cont	tainers	11. Total	12. Unit	1025		F
	1	Waste Shipping Nam	e and Descrip	tion	031				No.	Туре	Quantity	Wt./Vol.			
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	1	and the said			Service Control										
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	13	3. Special Handling Instruction	ns and Additio	nal Information				(ALTERIAL				security pro-1	11.7.1018.47.04.15	and product of the	- And Exist.
		18-0315	Weight	is estim	ated			1.)	20181	1002-18	OMILLS tr	eet Soi	1		
		Rate code 1	32	No.											
		4	M												
		0	97												W
Ш	14	. GENERATOR'S/OFFERO	R'S CERTIFIC	ATION: I hereby	declare that the cont	ents of this co	nsignment are	fully and acc	urately de	scribed above	by the proper sh	nipping name,	and are classifi	ed, packag	jed,
	G	marked and labeled/placare enerator's/Offeror's Printed/T		all respects in p	roper condition for tra	ansport accord		AND THE RESERVE OF THE PARTY OF	al and na	tional governn	nental regulations	S	Manula	Devi	V
1		Joshua a		-1/A-	- 22 -	BACE	Signa	lo Ille		9 1	12 0	-1	Month	Day	
		5. International Shipments			Jens an		11/	TYPUL	A.	de de	ence	7	10	3	10
INT'L		ansporter Signature (for expe		port to U.S.			Export from U.S	S.	Port of e	Charles Co. of Co. of Street, or other Co.					
0.00		ansporter Signature (för expo 5. Transporter Acknowledgme		of Materials					Date lea	ving U.S.:					
RTE	_	ansporter 1 Printed/Typed N	Control Control Control	1		FF	Signa	ature	11/	1		113-4	Month	Day	Year
SPO		LOE	V	11/61				1	10	m			10	3	18
TRANSPORTER	Tr	ansporter 2 Printed/Typed N	ame				Signa	ature /		0	1		Month	Day	Year
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A	_	. Discrepancy									All day of the second				
- Paris	17	a. Discrepancy Indication Sp	ace	Quantity		Туре		Res	idue		Partial Re	ection		Full Rejecti	ion
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1	17	b. Alternate Facility (or Gene	erator)					Manifest R	eference	Number:	110 554 15	Nicontras			
E	1	b. Alternate Facility (of Gene	raior)								U.S. EPA ID	Number			
ACI	Fa	cility's Phone:									1				
8	_	c. Signature of Alternate Fac	cility (or Gener	ator)									Month	Day	Year
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DESIGNATED FACILITY													100000	2000	Markage y
DE															
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		. Designated Facility Owner	or Operator: C	ertification of rece	eipt of materials cove	red by the ma			m 17a					est of the	
	Pri	inted/Typed Name	1 3	1			Signa	ture	1	10			Month	Day	Year
V		10) 1			4-11	115	50-	1	A			10	2	18

Global Cycle Inc.

CYCLE

Invoice

Date	Invoice #
10/15/2018	2796

700 Richmond	1 Street
East Taunton.	MA 02718

Bill To	
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590	

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	site: BASF	1	
	180 Mill Street		
	Cranston, RI		
	Wednesday, October 10, 2018	1 1	
9,000	Recycling non-hazardous wastewater @ Globalcycle	1	
1	Transportation charge		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, October 11, 2018	1	
9,000	Recycling non-hazardous wastewater @ Globalcycle	1	
1	Transportation charge		
		P	
		10	
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		1	
		1	
		N.	
		Total	

Total

ANALESON SPRINGFIELD 415 WEST BRIDGEWATER N. DELIVERS OF TO SHAPE THE BRIDGEWATER N. DESCRIPTION OF TRAILES NO. DERIVER OF TRAILES NO. DE	CAPE COD CARTAGE RUTLAND J. P. NOOI TRANSPORTATION	N. INC.		LOAD NUMBER
DESCRIPTION DESCRIPTION RATE TOTAL THE OWN FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT FOR FL			DATE	BILL OF LADING NUMBER
DESCRIPTION RATE TOTAL FT. IN. This is to certify that the above-named materials are properly classified, described, packaged, merked and labeled and are in proper condition for transportation according to the appartment of Transportation. RECEIVED PAYMENT TRACTOR NO, TRAILER NO. DRINGE DELAY LOADING TIME IN TIME OUT NAMBER DELAY UNA,ADDING RECEIVED RATE HE UNDADING AREA AFTER DELIVERY AND POUND IT SATISFACTORY RECEIVED RESIGNATURE SIGNATURE FOR CERTIFICATION OF DELAY TIME HRS. MIN. There verified that the connection has been made to the correct receiving tank and it has switchert capacity. CONSIGNEE	HOOKSETT A WEST BRIDGEWATER		10-10-18	
DESCRIPTION RATE TOTAL DESCRIPTION RATE TOTAL DESCRIPTION RATE TOTAL DESCRIPTION RATE TOTAL FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT FT. IN. This is to certify that the above-named nethorisis are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable registed in equal to the Department of Transportation. RECEIVED PAYMENT CHECK NUMBER THACTOR NO. TRAUSER NO. FORNUER AND THACTOR NO. TRAUSER NO. FORNUER PARTIAL TOTAL NUMBER DELAY TIME IN TIME OUT RECEIVER SIGNATURE PTO PUBLIP TIME HRS. MIN. I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity. CONSIGNEE	BILLTØ	ELIVERED TO		
DESCRIPTION RATE TOTAL PART	SHIPPED FROM		. 0	
DESCRIPTION RATE TOTAL PART	RAST Constant DI	6	1. 6. 111.	and the second second
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FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT FT. IN. This is to carrify that the above-named straintains are properly disasified, described, packaged, marked and labeled and are in proper condition for transportation according to the above-named training properly disasified, described, packaged, marked and labeled and are in proper condition for transportation according to the above-named training properly disasified, described, packaged, marked and labeled and are in proper condition for transportation according to the above-named training training trai			OO KICAMO	my st.
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I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity. Customer Signature		SIGNATUR	RE FOR CERTIFICATION C	F DELAY TIME
has sufficient capacity. Customer Signature CONSIGNEE		SHIPPER	1 34	GILLY F
	has sufficient capacity.			1911
	The state of the s			

Carrier: J.P. Bill of Lading	Noonan Date: 10/ #: 101018-2 PO#: 18-031	5	Z				
Order#:							
Shipper/Cons	signor: BASF Corporation; 180 Mill St.; Cranston, RI 02905						
Consignee:	GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
Instructions:	1º oad						
Item Code	Details	Quantity	Weight (Unit)				
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9600	G				
	Wastewater for Recycle						
	Total						
Terms:	Prepaid Collect Other						
Carrier	Pick Up Date: 10-10-18 Signature Mule	Den					
Corretainsc.	eages receipt of packages and that they are properly described as above and are in gapo on	der except as na	tec				
Shipper: Pick Up Date: 10/0/2018 Signature: The							
This section is to make it sure that all materials are properly classified, described packaged, marked and lacelen one are in good condition to be transported and according to the applicable regulations of transporting department							
Received in Apparent Good Order							
	L. P						
Print Na	Print Name Here: Stephon Poznel Date: 10/10/18						

CAPE COD CARTAGE RUTLAND DANIELSON SPRINGFIELD TRANSPORTAT 415 WEST STREET WEST BRIDGEWATER	TION, INC. T P.O. BOX400	DATE	28	ADING NUMBER
BILL TO Global Cycle	DELIVERED TO			
SHIPPED FROM		Global	Cirl	
180 M 11 556	2	DO Richman	1 51	<u> </u>
Cransten Re		Tautan m		
DESCRIPTION			RATE	TOTAL
- Lie PI	1. t. " D816	380 (1183)		
I Load of Waste	lilater			
9000	Galles			
Non RERAINSON Det Regulater	1 Paid			
pH = 8.5 V. sval - ok				
B-300-001				
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT This is to certify that the above-named materials are properly classified, described, packet the applicable requisitions of the Department of Transportation.	FT. aged, marked and labeled	IN.	for transport	tation according to
the applicable regulations of the Department of Transportation. RECEIVED PAYMENT CHECK NUMBER	DELAY LOADING	TIME IN		TIME OUT
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RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DECIVERY AND FOUND IT SATE	DELAY UNLOADING	TIME IN		TIME OUT
RECEIVER SIGNATURE ###		FOR DELAY UNLOADING		
PTO PUMP TIME HRS. MIN.	CALALTA CALA	E FOR CERTIFICATION OF	DELAY TIN	VIE
I have verified that the connection has been made to the correct receiving to has sufficient capacity. Customer Signature 24 HOUR EMERGE	ank and ft CONSIGNE			

Bill of Lading Template

Catrier: J.P. Noonan Date: 10/10 Bill of Lading #: 101018-1 Po #: 18-031							
Order#:							
Shipper/Con	signor: BASF Corporation; 180 Mill St.; Cranston, RI 02905						
Consignee:	GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
Instructions:	2º Dack						
Item Code	Details	Quantity	Weight (Unit)				
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	G				
	Wastewater for Recycle						
	Total						
Terms:	Terms: Prepaid Collect Other						
Carrier: Pick Up Date: 10-10-17 Signature: Muke B.							
Carrier at known	eages receipt of oackages and that they are properly described as above and are in good ora	er except as no	TEC				
Shippe	Shipper: Pick Up Date: 10/10/2018 Signature: M.)						
This sestion is to make it sure that of materials are properly classified, described packaged, marked and labeled and are in good condition to be transported and according to the applicable regulations of transporting department.							
Received in Apparent Good Order							
Print Na	Received By: (Signatures) Print Name Here: Stophen 103 det Date: 10/15/18						
	1 6						

CAPE COD CARTAGE RUTLAND	J. P. NOONAN TRANSPORTATION, INC.		LOAD NOMBER
DANIELSON SPRINGFIELD	415 WEST STREET P.O. BOX4 WEST BRIDGEWATER, MA 023	00 DATE	BILL OF LADING NUMBER
HOOKSETT WEST BRIDGEWATER		10-11-18	
BILL TO Johall vicle	DELIVERE	ТО	
SHIPPED FROM		-11 11	y
BASI Granston	RI	1910ball Va	let Jawn Tox
_ 180 Mill st		700 Pleh	mond St
	DESCRIPTION		RATE TOTAL
			<i>A</i>
Wastennter			
Picted	97.1(N A)	7.3	CRIGO2
P/of 18# R - 300-7001		0 1018	
		3 ×6/W	
FOR FLATBED AND LOW BOY MOVES - ENTER This is to certify that the above-named materials are properly clips applicable requisitions of the Department of Transportation	OVERALL HEIGHT	i and labeled and are in proper condition	
and application regulations of the population of manaportation.	HECK NUMBER		
\$	HEOR NUMBER	DELAY TIME IN	TIME OUT
TRACTOR NO. TRAILER NO. DRIVER	NUMBER	REASON FOR DELAY LOADING	
629 TKUBD 1 2010/9	achs	DELAY TIME IN	TIME OUT
RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELI	VERY AND FOUND IT SATISFACTORY	UNLOADING	TIME OUT
RECEIVER SIGNATURE	-9-	REASON FOR DELAY UNLOADING	
THE PART OF THE PA		SIGNATURE FOR CERTIFICATION (OF DELAY TIME
PTO PUMP TIME HRS	MIN	SHIPPER	M'GT TO
I have verified that the connection has been made to that sufficient capacity.	he correct receiving tank and it		
Customer Signature	24 HOUR EMERGENCY PHONE	CONSIGNEE	
	24 HOUR EMERGENCY PHONE	c - 800-922-8026	

Carrier: J.F		120101					
Bill of Lading	Date: 0 / 1/ #:_101018-3. Po#: 18-03	15					
Order#:							
Shipper/Con	signor: BASF Corporation; 180 Mill St.; Cranston, RI 02905						
Consignee:	GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
	3rd Load of PROSE						
ist lo	och of oley						
Item Code		,					
THE IT CODE	Details	Quantity	Weight				
B-300-001	Non DOT/Non BORA B		(Unit)				
2 2 3 3 3 3	Non-DOT/Non-RCRA Regulated Groundwater	9000	G				
	Wastewater for Recycle						
	The state of the s						
	PH- XI VISOR						
	A - Adv - 1:						
	Propile # B-300-00						
	PINTS UCINA)						
	Total						
Terms:	Prepaid Collect Other						
Carrian							
Carrier: Pick Up Date: 10/11/15 Signature X							
Lumer Senson	ages receipt of pockages and that they are properly described as above and are in good ard	er except as not	EG.				
	and the second s	7					
Shippe	Pick Up Date: 10 11 18						
			A-n				
This section is t	As Auth Ager	ter by	F				
This section is to make it sure that all materials are properly classifies, described, packages, marked and labeled and are in gapa condition to be transported and according to the applicable regulations of transporting department.							
	Received in Apparent Good Order						
	Received in Apparent Good Order Received By: (Signatures)						
Print Na	me Here: Jercho Pemandes Date: Company	718					

Global Cycle Inc.

G.OL. CYCLE

Invoice

Date	Invoice #
10/19/2018	2800

700 Richmond	1 Stre	eet
East Taunton,	MA	02718

Bill To	
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590	

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
7,850 1	WASTEWATER RECYCLING SERVICES site: BASF 180 Mill Street Cranston, RI Thursday, October 18, 2018 Recycling non-hazardous wastewater @ Globalcycle Transportation charge Recycling non-hazardous wastewater @ Globalcycle Transportation charge	Rate	Amount
		Total	

Total



SEPERENTED A TOTAL STRUCTURE SOLD RESOLDED

10-18-18

TRANSPORTER Global Remediation Services 200 Fishmand Street GENERATOR BASE Corporation 180 Mid Street NA. FACILITY Globalovas NIA E0828784110161 700 Richmond Street East Taunton, MF 02719 Containers NU TEDE Guantity Non-CCT from RERA Required Material 001 6 (post ween water) TT 7850 Giobalevola Approval a PH-7.6 VIS-OK 3944 M. .
The source and marenals we properly classified, described hackaged, marked the rapeled, and are in proper condition for canadatas on according to the profession in the same Department of Transportation GENERATOR Date Eld- Street Michael Rapost 10-18-18 Jordan Fernandes

especial resolutions and reserving post-best allower

Order#	1/4/2018 8-0315					
Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 029	05					
Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
Instructions:						
Item Code Details	Quantity	Weight				
B-300-001 Non-DOT/Non-RCRA Regulated Groundwater		(Unit)				
Wastewater for Recycle						
	Total					
Terms: Prepaid Collect Stiker						
Carrier: Pick Up Date: 10/18/18 Signature Mulil J. Roper						
Castle rathnounledges receipt of packages and that they are properly described to state and are in good procedure except at notes.						
Shipper: Pick Up Date: 10/18/18						
This section is to make it care that of materials are properly classified, described packages), maked and laseled and are in good constants be transported and according to the applicable regulations of transporting deportment.						
Received in Apparent Good Order						
Received By: (Signature Print Name Here: Date:		991 TAA-198				



STRAIGHT BILL STRAIGHT BILL 15.6% - NOT EGOT 45L

PAGE 05 80 0-18-18

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1700	bal Remediation Services Richmond Street t Teumon (114,527 (5-154)	200		2003		F25-1005
	VERATOR SF Corporal:	The state of the s	Numoer		The second of	
	Mill Street neten Pl 03004		1012		774	276-1480
	NUT paleyota II-a	popus poli- s popus poli- s politica	Top 1 feet and Top 25. The Top 25.		r)i.	na Mindel
	Richmona Street t Taunto: 4 027 5		rui-			123 ME
344	Description of America of Proper Ship	er venless h. segarking, pp. Combidigation	.01	ntainers	ang ta digital services	
			No.	i i	Guantity	Unit Wt / Vol
	Non-DOT/ Nor-RCRA Requists	T 11 5% - 3	00 (TT	7800	G
	Cicoaleyele Approvii (0-3004	profile	· W . 1984 i indishi ka fayon miliga sa gabaya y	a.h		No. of Contract of
	PH-7.6 Vis-	0K				
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Depa	Asta #83949 M4 The carry the present of the fortransement of Transportation	anals are prope Speciation appo			figurations el 1	72.7-3-1-3-10
	ERATOR SES	Bionature		BODD & Colle Little Country Little Co. 1887 Little		544
TRA	NSPORTER SAS			F. M.Ca	thy to	10-18-18
M	while Ropora p	lichael R	DOST.	b · 1940	10-	18-18
1	/www.	boden	Fem	andes	10	5-18-18
Ems	rgency Response Taleshors flum	ner 508-828-		Vicini	(1) 왕, 왕왕 (1) [1] 고영(1) (1)	10 10 JOH 16 JOH 1860

	Bill of Lac Order#: Shipper/c	Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 0290: e: GlobalCycle; 700 Richmond St.; Taunton, MA 02716	/18/2018 0315		
	B-300-00	Details	Quantity	Weight (Unit) G	
1	erms:	Prepaid Collect Other Pick up Date: 0 0 0 0 0 0 0 0 0 0			
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	Received in Apparent Good Order Received By: Print Name Here: Date:				

Global Cycle Inc.

700 Richmond Street East Taunton, MA 02718



Invoice

Date	Invoice #
11/12/2018	2878

Bill To	
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590	

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
	WASTEWATER RECYCLING SERVICES		
	den DAGE		1
	site: BASF 180 Mill Street		}
	Cranston, RI		
	Clausion, Ki		
	Thursday, November 1, 2018		
8,100	Recycling non-hazardous wastewater @ Globalcycle		-
	Transportation charge		1
	Recycling non-hazardous wastewater @ Globalcycle		1
1	Transportation charge		
	Friday, November 2, 2018		
9 000	Recycling non-hazardous wastewater @ Globalcycle		
	Transportation charge		
	N 1 N 1 5 2010		
0.000	Monday, November 5, 2018		
	Recycling non-hazardous wastewater @ Globalcycle		17:
	Transportation charge Recycling non-hazardous wastewater @ Globalcycle		
	Transportation charge		1
1	Transportation charge		
	Tuesday, November 6, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1	Transportation charge		
	Friday, November 9, 2018		
9,000	Recycling non-hazardous wastewater @ Globalcycle		
1			
			

Total



GLOBAL REMEDIATION STRAIGHT BILL OF LAS NO ORIGINAL HIST LEBASTABLE

20181101-02

East Jauneo ENERATOR BASE Corporation LIBERATE NUMBER East Taunten, MA 19719 Feripoon Francisco Francis Total-Link No. TY DE Guantity Non-DOT Man-RCEA Regulated Motental 00 G T T 2100 Globalcycle Approval a Cast out Profi Cth ____Vis-()K * 83949 PA. atilies, and a. . 1 Department of Transposition Sior sture 11-1-18 Michael RAPOSA Emergency Response February 508-828-1005

(Ui	ight nit)				
Instructions: Item Code Details Quantity We (Ui	nit)				
Item Code Details Quantity We	nit)				
Quantity we	nit)				
	- 4				
B-300-001 Non-DOT/Non-RCRA Regulated Groundwater					
Wastewater for Recycle					
Total					
Terms: Prepaid Collect Other					
Carrier: Pick Up Date: Thur 11-1-18 Meril Ropera					
Corne- acknowledges reteipt of packages and that they are properly described as above and are in good order except as nated					
Shipper: Pick Up Date: /////					
This section 6 to make it sure that all materials are properly classified described packaged marked and labeled and ore in good condition to be transported and according to the applicable regulations of transporting department.					
Received in Apparent Good Order					
Received By:(Signatures) Print Name Here: Date:					

CAPE COD CARTAGE RUTLAND J. P. NOONAN	COAD NUMBER
DANIELSON SPRINGFIELD TRANSPORTATION, INC. 415 WEST STREET P.O. BOX	
WEST BRIDGEWATER, MA 023	379
BII.L TO DELIVERE	ED TO
SHIPPED FROM	*
TO Merc A	-11001
BAST Lionston KI	(3 lotal (KIET Tounton
180 MILL St.	Too Kichmond sto
DESCRIPTION	RATE TOTAL
	1/
Mosteuriter	9.00mX
	-17-2-2-3
PH-79 VISOK DIGGET 96 CMAI Produk	#R 300-001
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT This is to certify that the above-named materials are properly classified, described, packaged, market the applicable regulations of the Department of the properly classified and packaged.	FT. IN.
the applicable regulations of the Department of Transportation.	
RECEIVED PAYMENT CHECK NUMBER	DELAY TIME IN TIME OUT
TRACTOR NO. TRAILER NO. DRIVER NUMBER	REASON FOR DELAY LOADING
RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SATISFACTORY	DELAY TIME IN TIME OUT
THE OFFICE HOPE OF THE OFFICE AREA AFTER DELIVERY AND FOUND IT SATISFACTORY	REASON FOR DELAY UNLOADING
RECEIVER SIGNATURE	
PTO PUMP TIME RRS. MIN	SIGNATURE FOR CERTIFICATION OF DELAY TIME
I have verified that the connection has been made to the correct receiving tank and it	SHIPPER
has sufficient capacity. Customer Signature	CONSIGNEE
24 HOUR EMERGENCY PHON	

Bill of Lading Template

Order#:	#: // O / 20)8 ~ / PO#	18-0315		
Consignee:	GlobalCycle; 700 Richmond St.; Taunton, MA 0271	8		
Instructions:				
Item Code	Details	Quantity	Weight (Unit)	
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater		G	
-12 (466-400-1) mullimation/represented	Wastewater for Recycle	9000	9000	Gallons
	Visit description of the Control of			
	And additional add	Total		
Terms:	Prepaid Collect	Other		
Carrier	Pick Up Date: //-/-/8			
Carnel believe :	eages rece at of packages, and that they are properly described as above and ar	ë in goda order except as n	otea	
	<u>r:</u> Pick Up Date: //////			
This section is a condition to be a	to make it sure trat of materials are properly classified susstitued package transported and according to the applicable regulations of transporting departm	a marked and labeled on nent	d are in good	
	Received in Apparent Good Orde			_
Print Na	Received By: by Lennedy me Here:	(Signotures)		

CAPE COD CARTAGE RUTLAND J. P. NO			LOAD NOMBER	
DANIELSON SPRINGFIELD TRANSPORTA 415 WEST STREE	T P.O. BOX400	DATE	BILL OF LADING NUMBER	
HOOKSETT WEST BRIDGEWATER	TER, MA 02379	11-2-18		
BILL TO	DELIVERED TO			
SHIPPED FROM		- 4		
BAST LEGISTON, KI	61	rball vile	Enlaunton	
180 MILLST-	7	OO Kichim	and st.	
DESCRIPTION	,		RATE YOTAL	
			A	
1 1 1				
Nosteunter 900 hav				
	W-0 1			
PH 8.0 VISOK DIGLETT 96/M91	Diotile #	R-300-001		
FOR ELATRED AND LOW POY MOVES. FAITER OVERALL AFFORM				
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT This is to certify that the above-named materials are properly classified, described, packets.	FTFT.	IN. and are in proper condition t	or transportation according to	
the applicable regulations of the Department of Transportation. RECEIVED PAYMENT CHECK NUMBER		TIME IN	TIME OUT	
\$	DELAY LOADING	LIIAIE IIA	TIME OUT	
TRACTOR NO. TRAILER NO. DRIVER NUM	BER REASON F	OR DELAY LOADING		
629 THURS DOWN TURK		TIME IN	TIME OUT	
RECEIVER HAS INSPECTED THE UNLOADING AREA AFTER DELIVERY AND FOUND IT SAT	DELAY UNLOADING		TIME OUT	
RECEIVER SIGNATURE REASON FOR DELAY UNLOADING				
SIGNATURE FOR CERTIFICATION OF DELAY TIME				
PTO PUMP TIME HRS. MIN.				
I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.				
Customer Signature	CONSIGNE			
24 HOUR EMERGE	NCY PHONE - 800-922-8	026		

Carrier: J.P.		_					
Bill of Lading #: 101018-1 PO#: 18-03							
Order#:	Order#:						
	Shipper/Consignor: BASF Corporation; 180 Mill St.; Cranston, RI 02905						
Consignee:_	GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
Instructions:							
Item Code	Details	Quantity	Weight				
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	(Unit) G				
	Wastewater for Recycle						
	201						
	PH-8.0 Vis-OK						
	Platet (MA) 96						
	Profile # (-300-00) Total						
Terms:	Prepaid Collect Other						
Carrier	Carrier: Pick Up Date: 11-2-18 Signature						
Carrier acknowle	isges receipt of packages, and that they are properly described as above and are in good ord	er ëxcept as na	ea.				
Shipper: Pick Up Date: 1//2							
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Received in Apparent Good Order							
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Print Na	Print Name Here: Ky Ce Kernedy Date: 11/2/18						

DANIELSON SPRINGRIELD ASSESSMENT POLICY AND	CAPE COD CARTAGE RUTLAND J. P. NO			LOAD NUMBER
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ZS TILLIN ENTERCHEMITY MAINING - MYSTONIA				

Carrier: J.P. Noonan Date:							
Bill of Lading #: 101018-2 // 2 > 2017 Po #: 18-0315							
Order#:	PACE Comments 100 Mill Co. C.						
Shipper/Con	signor: BASF Corporation; 180 Mill St.; Cranston, RI 02905						
Consignee:	Consignee: GlobalCycle; 700 Richmond St.; Taunton, MA 02718						
Instructions:							
Item Code	Details	Quantity	Weight				
B-300-001	Non-DOT/Non-RCRA Regulated Groundwater	9000	(Unit)				
	Wastewater for Recycle						
	AH-7.2 VIS-OK						
	Platest 96 (MA)						
	Total						
Total							
Terms: Prepaid Collect Other							
Carrier: Pick Up Date: 11-5-18 Signature 4							
Carrier acknowle	ediges receipt of packages, and that they are properly described as above and are in good ordi	er except as not	ea.				
Shipper: Pick Up Date: ///5//7 Signification							
This section is to make it sure that all materials are properly classified, described, packaged, morked and labeled and all in good condition to be transported and according to the applicable regulations of transporting department.							
Received in Apparent Good Order							
72 (1)							
Received By: 2 (Signatures) Print Name Here: 41 Lennedy Date: 11/5//8							
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CAPE COD CARTAGE RUTLAND J. P. NOONAN		LOAD NUMBER
DANIELSON SPRINGFIELD TRANSPORTATION, INC. SPRINGFIELD 415 WEST STREET P.O. BO		0001401
WEST BRIDGEWATER, MA C	2379	BILL OF LADING NUMBER
HOOKSETT WEST BRIDGEWATER	111-5-18	
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DESCRIPTION		RATE TOTAL
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21180 USAL ALLHOLL D. 1	1. HP 0 00 1	
THE ACT OFFICE CHAPTER WAS FIGHT	1071 B-300-001	
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT	F7IN.	
This is to certify that the above-named materials are properly classified, described, packaged, merithe applicable regulations of the Department of Transportation.	cod and labeled and are in proper condition	for transportation according to
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THE PARTY OF THE P	REASON FOR DELAY UNLOADING	
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	SIGNATURE FOR CERTIFICATION OF	F DELAY TIME
PTO PUMP TIME HRS. MIN.	- SHIPPER	F14 70 15 5
I have verified that the connection has been made to the correct receiving tank and has sufficient capacity.	3	
Customer Signature	CONSIGNEE	
24 HOUR EMERGENCY PHO	NE - 800-922-8026	

Bill of Lading Template

Bill of Lading Short Form

Carrier: J.P. Bill of Lading Order#:	Noonan	218-1	mar.	C P	Post: 18-03	/ <i>E</i>	
Shipper/Con	signor: BA	SF Corporation; L	80 Mill S	t.; Cranston	, RI 02905		
Consignee:	GlobalCy	cle; 700 Richmond	St.; Tau	nton, MA 0	2718		
Instructions:	retern - Suddensing standally fighter properties				eng ferren mengapakan palamajahan dilagan, sebah AAA - dalama, sebagai sebagai sebah sebah sebah sebah sebah s Sebagai sebah pengapan pangapan pangapan pengapan sebah		
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Terms:	Prepaid		Collect		Other		
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Shippe	r: Pick Up I	Date: 11/5//3	ku	(rollul)		2	
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condition to be t	iransporte o ar a d	ccoraing to the applicable	regulations o	f dansporting as	partment		Ben.
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Transporte!

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CAPE COD CARTAGE RUTLAND J. P. NOO TRANSPORTATIO 415 WEST STREET F WEST BRIDGEWATER WEST BRIDGEWATER	DN, ING. P.O. BOX400	BILL OF LADING NUMBER
	DELIVERED TO	
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Innsteunter		Month
	(KY)	ALM MUPALIA
DI LINE (IZANA) DI TZ VZ	Podijak	2 200 00
21 VI TIT (AMA)P ROTAT	- In Provider	3-300-00/
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT	The state of the s	
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the applicable regulations of the Department of Transportation. RECEIVED PAYMENT CHECK NUMBER		
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	BEASON FOR DELAY LOADING	
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1087 SHORLS 120VICE-17151	DELAY TIME IN	TIME OUT
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12/17	REASON FOR DELAY UNLOADING	
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Inas sufficient capacity.		
Customer Signature	CONSIGNEE	
24 HOUR EMERGENCE	Y PHONE - 800-922-8026	

CAPE COD CARTAGE RUTLAND J. P. NOON	The same and the s	LOAD NUMBER
DANIELSON SPRINGFIELD TRANSPORTATION 415 WEST STREET P.0	O. BOX400	BILL OF LADING NUMBER
WEST BRIDGEWATER WEST BRIDGEWATER	MA 02379	
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SHIPPED FROM		
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DESCRIPTION		RATE TOTAL
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Inhitewater		anal
	61.11	
DHTI VISOK DIOLETT 96/141 Pr	of b #B-30001	
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT		
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	SIGNATURE FOR CERTIFICATION OF	F DELAY TIME
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I have verified that the connection has been made to the correct receiving tank has sufficient capacity. Customer Signature	and it CONSIGNEE	
	7 PHONE - 800-922-8026	

L COADA A III IN ADDITION

Global Cycle Inc.



Invoice

Date	Invoice #
11/21/2018	2898

700 Ric	hmond	l Stre	eet	
East Ta	unton,	MA	027	18

Bill To
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity	Description	Rate	Amount
9,000 1 9,000 1 9,000 1 9,000	WASTEWATER RECYCLING SERVICES site: BASF		
		Total	

CAPE COD CARTAGE RUTLAND J. P. NOONAN TRANSPORTATION, INC.		LOAD NUMBER
DANIELSON SPRINGFIELD 415 WEST STREET P.O. BOX4 WEST BRIDGEWATER, MA 023	00 DATE	BILL OF LADING NUMBER
HOOKSETT WEST BRIDGEWATER	11-12-18	
BILL TO	то	
SHIPPED FROM	=01 00	P 74
BAJ Lianton RI	Shope VI ya	6 F Townton
180 /VIII st.	700 86h	wnd (+
DESCRIPTION		RATE TOTAL
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Mostewater	90	Mary
- 4 - 4 - 4 - 4 - 4		
11177 VIS-OK plate#96(M) Intl	H 8 300-001	
FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT	FIIN.	
This is to certify that the above-named materials are properly classified, described, packaged, marked the applicable regulations of the Department of Transportation.	and labeled and are in proper condition t	for transportation according to
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24 HOUR EMERGENCY PHONE	CONSIGNEE	

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CAPE COD CARTAGE RUTLAND J. P. NOONAN TRANSPORTATION, INC. 415 WEST STREET P.O. BOX WEST BRIDGEWATER, MA 02 HOOKSETT WEST BRIDGEWATER		LOAD NUMBER
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I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.	SHIPPER	
Customer Signature	CONSIGNEE	
24 HOUR EMERGENCY PHOI	VE - 800-922-8026	

Global Cycle Inc.

700 Richmond Street East Taunton, MA 02718



Invoice

Date	Invoice #
11/30/2018	2921

Bill To	
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590	

P.O. No.	Terms	Project
18-0315	Net 30	

		Rate	Amount
9,000	wastewater recycling services site: BASF		Amount

CAPE COD CARTAGE RUTLAND J. P. NO	ONAN	LOAD NUMBER
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This is to certify that the above-named materials are properly classified, described, package the applicable regulations of the Department of Transportation. RECEIVED PAYMENT	iged, marked and laboled and are in proper condition t	for transportation according to
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has sufficient capacity. Customer Signature		
	CONSIGNEE NCY PHONE - 800-922-8026	

Global Cycle Inc.

700 Richmond Street East Taunton, MA 02718



Invoice

Date.	Invoice #
12/26/2018	3000

Bill To	
Strategic Environmental Attn: Accounts Payable 362 Putnam Hill Road Sutton, MA 01590	

P.O. No.	Terms	Project
18-0315	Net 30	

Quantity Description	Rate	Amount
WASTEWATER RECYCLING SERVICES		
site: BASF		
180 Mill Street Cranston, RI		
Wednesday, December 19, 2018		
4,500 Recycling non-hazardous wastewater @ Globalcycl	e	
1 Transportation charge		
	•	
v.		
- L	Total	1

CAPE COD CARTAGE TRUTLAND J. P. NOONAN		290	7941
DANIELSON SPRINGFIELD TRANSPORTATION, INC. 415 WEST STREET P.O. BOX44 WEST BRIDGEWATER, MA 023	70	BILL OF I	ADING NUMBER
HOOKSETT / WEST BRIDGEWATER	12-19-18		
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FOR FLATBED AND LOW BOY MOVES - ENTER OVERALL HEIGHT	FT. JN		
This is to certify that the above-named materials are properly classified, described, packaged, marked the applicable regulations of the Department of Transportation.	and labeled and are in proper condition	n for transpo	rtation according to
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I have verified that the connection has been made to the correct receiving tank and it has sufficient capacity.	0010015		
Customer Signature 24 HOUR EMERGENCY PHONE	CONSIGNEE = -800-922-8028		

APPENDIX H

Data Validation Reports (on CD)



ESS Laboratory — Laboratory Work Order Number **1808388**; Report Issued **October 5, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-864-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-01	⊠ PCB (8082A)
B-865-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-02	⊠ PCB (8082A)
B-866-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-03	⊠ PCB (8082A)
B-867-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-04	⊠ PCB (8082A)
B-868-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-05	⊠ PCB (8082A)
B-869-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-06	⊠ PCB (8082A)
B-870-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-07	⊠ PCB (8082A)
B-871-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-08	⊠ PCB (8082A)
B-873-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-09	⊠ PCB (8082A)
B-874-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-10	⊠ PCB (8082A)
B-875-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-11	⊠ PCB (8082A)
B-877-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-12	⊠ PCB (8082A)
B-878-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-13	⊠ PCB (8082A)
B-879-081518 1 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-14	⊠ PCB (8082A)
B-615-081518 3 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808388-15	⊠ PCB (8082A)
B-615-081518 3 ft	8/15/2018	⊠ Soil □ Concrete	\square FD \boxtimes MS/MSD \square EB \square TB	1808388-15	⊠ PCB (8082A)
B-615-081518-1 3 ft	8/15/2018	⊠ Soil □ Concrete	oxtimes FD $oxtimes$ MS/MSD $oxtimes$ EB $oxtimes$ TB	1808388-16	⊠ PCB (8082A)
SW-408-081518 0-3ft	8/15/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808388-17	⊠ PCB (8082A)

Evaluated	Eval Not	Data	Evaluation Criteria		
	Required	Qualified			
\boxtimes			Data completeness		
\boxtimes			Holding times/Sample preservation		
			Surrogate recoveries – Surrogate recoveries for samples 04, 07, 08, 11, and 13 primary runs were diluted below MRL (no recoveries could be calculated for samples). No qualification indicated.		

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
\boxtimes			Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
\boxtimes			Field duplicate RPDs (if collected)
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required for any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 02, 03, 05, 06, 10, 12, and 14, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 04, 07, 08, 11, and 13, all results reported from diluted runs (all at 20x dilution), with RLs raised. RLs for all ND results below PALs (maximum of 1.1 mg/kg for PCBs in all 20x diluted samples; PAL = 25 mg/kg).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808388

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
None	None	No data qualifications				

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
НТ	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
TB	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808439**; Report Issued **October 5, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-635-081618 3ft	8/16/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808439-01	⊠ PCB (8082A)
SW-433-081618 0-3ft	8/16/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808439-02	⊠ PCB (8082A)
B-765-081618 3ft	8/16/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808439-03	⊠ PCB (8082A)
SW-520-081618 0-3ft	8/16/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808439-04	⊠ PCB (8082A)
SW-521-081618 0-3ft	8/16/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808439-05	⊠ PCB (8082A)
SW-522-081618 0-3ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808439-06	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
		\boxtimes	Surrogate recoveries - Samples 02 & 03 DCB surrogate above QC limit for first column only. No impact on sample 02; results for Aroclor 1242 and 1254 for sample 03 considered estimates (J qualified).
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
\boxtimes		\boxtimes	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) – MS/MSD not specifically requested, but performed on sample 06. MS and MSD recoveries for Aroclor 1016 above QC limit. Detected concentrations of Aroclor 1242 and Aroclor 1254 considered estimates (J qualified).
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01, 02, and 04, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Vinnen Lhage

Table 1 Summary of Qualified Data ESS Laboratory Report 1808439

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
SW-443-081618 0-3ft	PCBs	Aroclor 1242	0.1	mg/kg	0.1 J	SA
		Aroclor 1254	0.6	mg/kg	0.6 J	SA
SW-522-081618 0-3ft	PCBs	Aroclor 1242	0.2	mg/kg	0.2 J	AM
		Aroclor 1254	1.0	mg/kg	1.0 J	AM

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808495**; Report Issued **October 5, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-880-081718-1ft	8/16/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808495-01	⊠ PCB (8082A)
B-885-081718-1ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808495-02	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries
\boxtimes			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes		\boxtimes	Dual Column RPDs (pesticide and PCB aroclors only) – Dual column RPD > 40% for sample 02 Aroclor 1252; result considered an estimate (J qualified)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on either sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria		
	\boxtimes		Interference check sample results (metals only)		
	\boxtimes		ICP serial dilution results (metals only)		
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For sample 02, only reporting limit raised was for a detected Aroclor. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).		

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808495

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-885-081718-1ft	PCBs	Aroclor 1242	0.2	mg/kg	0.2 J	DC

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808508**; Report Issued **October 24, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
W-40 0.25-2ft	8/16/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-01	⊠ PCB (8082A)
W-41 0.25-2ft	8/16/2018	Soil □ Concrete	□ FD ⋈ MS/MSD □ EB □ TB	1808510-02	⊠ PCB (8082A)
W-42 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-03	⊠ PCB (8082A)
W-43 0.1-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-04	⊠ PCB (8082A)
W-44 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-05	⊠ PCB (8082A)
W-46 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-06	⊠ PCB (8082A)
W-1 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-07	⊠ PCB (8082A)
W-2 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-08	⊠ PCB (8082A)
W-3 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-09	⊠ PCB (8082A)
W-4 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-10	⊠ PCB (8082A)
W-5 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-11	⊠ PCB (8082A)
DUP-1-2018-08-16	8/16/2018	⊠ Soil □ Concrete	⊠ FD □ MS/MSD □ EB □ TB	1808510-12	⊠ PCB (8082A)
W-6 0.5-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-13	⊠ PCB (8082A)
W-7 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-14	⊠ PCB (8082A)
W-8 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-15	⊠ PCB (8082A)
W-9 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-16	⊠ PCB (8082A)
W-10 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-17	⊠ PCB (8082A)
W-11 0.25-2ft	8/16/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808510-18	⊠ PCB (8082A)
W-12 0.25-2ft	8/17/2018	⊠ Soil □ Concrete	☐ FD ⋈ MS/MSD ☐ EB ☐ TB	1808510-19	⊠ PCB (8082A)
W-13 0.25-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808510-20	⊠ PCB (8082A)

Evaluated	Eval Not	Data	Evaluation Criteria		
	Required	Qualified			
\boxtimes			Data completeness		
\boxtimes			Holding times/Sample preservation		

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria			
\boxtimes		\boxtimes	Surrogate recoveries – TMX surrogate (column 1) above QC limit in sample 16. Aroclor 1242, 1254, and 1260 results for sample 16 considered an estimate (J qualified).			
			tch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent ferences (RPDs)			
\boxtimes			Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) - MS/MSD requested and performed on sample 2. Recoveries and RPDs in QC limits. MS/MSD requested and performed on sample 19 (separate analytical batch). Recoveries for Aroclor 1016 (both columns) in MS and MSD above QC limit. As Aroclor 1016 was ND in sample, and recoveries for Aroclor 1260 were within QC limits, no qualification to data was indicated.			
	\boxtimes		Laboratory duplicate RPDs (if performed)			
\boxtimes			Field duplicate RPDs (if collected) – Primary sample identified as W-5 0.25-2ft (1808508-11). Both samples all ND.			
		\boxtimes	Dual Column RPDs (pesticide and PCB aroclors only) – RPD exceeds 40% for sample 18, Aroclor 1242 result. Laboratory chose to use lower concentration result (from confirmation column) due to observed matrix interference. Sample 18 Aroclor 1242 result considered an estimate (J qualified).			
\boxtimes			Method blank results			
	\boxtimes		Field/equipment blank results (if collected)			
	\boxtimes		Trip blank results			
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)			
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)			
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.			
\boxtimes			Percent solids			
	\boxtimes		Mass spectrometer tuning (GC/MS only)			
	\boxtimes		Internal standard performance (GC/MS only)			
	\boxtimes		Interference check sample results (metals only)			
	\boxtimes		ICP serial dilution results (metals only)			
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For sample 18, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).			

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Vironen Lhange

Table 1 Summary of Qualified Data ESS Laboratory Report 1808508

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
W-9 0.25-2ft	PCBs	Aroclor 1242	0.8	mg/kg	0.8 J	SA
		Aroclor 1254	0.8	mg/kg	0.8 J	SA
		Aroclor 1260	0.2	mg/kg	0.2 Ј	SA
W-11 0.25-2ft	PCBs	Aroclor 1242	1.0	mg/kg	1.0 J	DC

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808509**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
W-33a 0-2ft	8/17/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-01	⊠ PCB (8082A)
W-33b 0-2ft	8/17/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-02	⊠ PCB (8082A)
W-26 0-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-03	⊠ PCB (8082A)
W-25 0-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-04	⊠ PCB (8082A)
W-23 0-2ft	8/17/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-05	⊠ PCB (8082A)
W-22 0-1.5ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-06	⊠ PCB (8082A)
W-21 0-2ft	8/17/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808509-07	⊠ PCB (8082A)
W-20 0.5-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-08	⊠ PCB (8082A)
W-19 0-2ft	8/17/2018	Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-09	⊠ PCB (8082A)
W-18 0-2ft	8/17/2018	Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-10	⊠ PCB (8082A)
W-16 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-11	⊠ PCB (8082A)
W-15 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-12	⊠ PCB (8082A)
W-17 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-13	⊠ PCB (8082A)
W-14 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808509-14	⊠ PCB (8082A)
W-45 0-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-15	⊠ PCB (8082A)
W-29 0-2ft	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808509-16	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness – Sample missed on COC, added by lab at the direction of client.
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries – Surrogate recoveries for samples 02, 13, and 14 diluted below MRL. No qualification indicated.
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)

Evaluated	Eval Not Required	Data Oualified	Evaluation Criteria
	×		Laboratory duplicate RPDs (if performed)
\boxtimes			Field duplicate RPDs (if collected) – Primary sample identified as W-33b 0-2ft (1808509-02) for DUP-2, and W-21 0-2ft (1808509-07) for DUP-3. Both field duplicates reported in package 1808511. However, they were extracted 69 days after collection, when they were taken off hold. While the extraction was within the method hold time (unspecified for extraction), extractions were performed well beyond the QAPP 7-day hold time. In addition, the results, particularly in comparison to the other duplicate results, indicate a very poor reproducibility that far beyond the QAPP hold time. These field duplicates are considered to be unusable, and therefore the primary samples were not qualified.
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) — For samples 05, 07, and 11, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 02, 13, and 14, all results were reported from diluted runs (dilution factors of 50, 100, and 20, respectively), with RLs raised. RLs for all ND results below Project Action Levels (PALs) (maximum of 6.3 mg/kg for sample 13; PAL = 25 mg/kg).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Vironin Lhygre

AEI Consultants Environmental & Engineering Services

Table 1 Summary of Qualified Data ESS Laboratory Report 1808509

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
None	None	No data qualifications				

mg/kg = milligrams per kilogram or parts per million (ppm)

Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
ВМ	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
НТ	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808510**; Report Issued **October 7, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
W-30 0.25-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-01	⊠ PCB (8082A)
DUP-1-2018-08-17	8/17/2018	Soil □ Concrete	oxtimes FD $oxtimes$ MS/MSD $oxtimes$ EB $oxtimes$ TB	1808510-02	⊠ PCB (8082A)
W-31 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-03	⊠ PCB (8082A)
W-32 0.5-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-04	⊠ PCB (8082A)
W-39 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-05	⊠ PCB (8082A)
W-38 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-06	⊠ PCB (8082A)
W-37 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-07	⊠ PCB (8082A)
W-36 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-08	⊠ PCB (8082A)
W-35 0-2ft	8/17/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808510-09	⊠ PCB (8082A)
W-34 1-2ft	8/17/2018	⊠ Soil □ Concrete	\square FD \boxtimes MS/MSD \square EB \square TB	1808510-10	⊠ PCB (8082A)

Evaluated	Eval Not	Data	Evaluation Criteria
	Required	Qualified	
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes		\boxtimes	Surrogate recoveries – TMX surrogate (column 1) above QC limit in sample 07. Aroclor 1254 result for sample 07 considered an estimate (J qualified)
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
\boxtimes			Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) - MS/MSD not specifically requested, but performed on sample 10. Recoveries and RPDs in QC limits.
	\boxtimes		Laboratory duplicate RPDs (if performed)
\boxtimes			Field duplicate RPDs (if collected) – Primary sample identified as W-30 0.25-2ft (1808510-01).
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
	×		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 05 and 08, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below Project Action Levels (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808510

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
W-37 0-2ft	PCBs	Aroclor 1254	0.2	mg/kg	0.2 Ј	SA

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808523**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-845-082018 3ft	8/20/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808523-01	⊠ PCB (8082A)
B-850-082018 3ft	8/20/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808523-02	⊠ PCB (8082A)
B-855-082018 3ft	8/20/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808523-03	⊠ PCB (8082A)
B-860-082018 3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-04	⊠ PCB (8082A)
SW-603-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-05	⊠ PCB (8082A)
SW-608-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-06	⊠ PCB (8082A)
SW-613-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-07	⊠ PCB (8082A)
SW-618-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-08	⊠ PCB (8082A)
B-825-082018 3ft	8/20/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808523-09	⊠ PCB (8082A)
SW-423-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808523-10	⊠ PCB (8082A)
SW-428-082018 0-3ft	8/20/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808523-11	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
			Surrogate recoveries – Surrogate recoveries for samples 02 and 07 primary runs and samples 08 and 11 diluted runs were diluted below MRL. (No qualification indicated.) DCB surrogate above QC limit (Primary column) for sample 03 in undiluted and diluted sample run. Detected results for Sample 03 (Aroclors 1242, 1254, and 1260) are considered estimates (J qualified). DCB surrogate above QC limit (Primary column) for sample 09 in 5x dilution sample run, from which Aroclor 1254 result was reported. Aroclor 1254 result for Sample 09 is considered an estimate (J qualified).
\boxtimes			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes		\boxtimes	Dual Column RPDs (pesticide and PCB aroclors only) – Dual column RPD > 40% for sample 01 Aroclor 1242 and for sample 10 Aroclor 1260; results considered estimates (J qualified)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – Reporting limits for all Aroclors raised (including ND results) for samples 02 and 07 due to dilution (raised to 20x standard RL). RLs remain below Project Action Levels (PAL). No QC issue. Samples 03, 04, and 08-11 only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808523

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-845-082018 3ft	PCBs	Aroclor 1242	0.1	mg/kg	0.1 J	DC
B-855-082018 3ft	PCBs	Aroclor 1242	1.7	mg/kg	1.7 J	SA
		Aroclor 1254	8.2	mg/kg	8.2 J	SA
		Aroclor 1260	1.6	mg/kg	1.6 J	SA
B-625-082018 3ft	PCBs	Aroclor 1254	2.1	mg/kg	2.1 J	SA
SW-423-082018 3ft	PCBs	Aroclor 1260	0.3	mg/kg	0.3 J	DC

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808557**; Report Issued **October 5, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-455-082118 2ft	8/21/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808557-01	⊠ PCB (8082A)
B-465-082118 2ft	8/21/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808557-02	⊠ PCB (8082A)
B-470-082118 2ft	8/21/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808557-03	⊠ PCB (8082A)
SW-643-082118 0-2ft	8/21/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808557-04	⊠ PCB (8082A)
SW-663-082118 0-2ft	8/21/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808557-05	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries – Surrogate recoveries for samples 04 & 05 diluted below MRL. (No qualification indicated.)
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes		\boxtimes	Dual Column RPDs (pesticide and PCB aroclors only) – Dual column RPD > 40% for sample 01 Aroclor 1260; result considered an estimate (J qualified)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – Reporting limits for all Aroclors raised (including ND results) for samples 04 and 05 due to dilution (raised to 20x standard RL). RLs remain below Project Action Levels (PAL). No QC issue. Samples 01-03, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Vironin Lhagge

Table 1 Summary of Qualified Data ESS Laboratory Report 1808557

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-455-082118-2ft	PCBs	Aroclor 1260	1.6	mg/kg	1.6 J	DC

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
НТ	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808591**; Report Issued **October 24, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-540-082218 7FT	8/22/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808591-01	⊠ PCB (8082A)
B-525-082218 7FT	8/22/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808591-02	⊠ PCB (8082A)
B-545-082218 7FT	8/22/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808591-03	⊠ PCB (8082A)
B-530-082218 7FT	8/22/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808591-04	⊠ PCB (8082A)
B-550-082218 7FT	8/22/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808591-05	⊠ PCB (8082A)
B-535-082218 7FT	8/22/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808591-06	⊠ PCB (8082A)

Evaluated	Eval Not	Data	Evaluation Criteria
	Required	Qualified	
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
			Surrogate recoveries - DCB surrogate above QC limit (Primary column) for sample 05 in undiluted run. Detected results for Sample 05 Aroclors 1242 and 1260 are considered estimates (J qualified).
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
		\boxtimes	Dual Column RPDs (pesticide and PCB aroclors only) – Dual column RPD > 40% for sample 01 Aroclor 1242; result considered an estimate (J qualified)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 02-06, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808591

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-540-082218 7FT	PCBs	Aroclor 1242	0.2	mg/kg	0.2 J	DC
B-550-082218 7FT	PCBs	Aroclor 1242	0.1	mg/kg	0.1 J	SA
		Aroclor 1260	0.4	mg/kg	0.4 J	SA

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808654**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date Collected	Media	QC Sample	Lab Sample ID	Analyses
B-748-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-01	⊠ PCB (8082A)
B-749-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-02	⊠ PCB (8082A)
B-750-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-03	⊠ PCB (8082A)
B-751-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-04	⊠ PCB (8082A)
B-752-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-05	⊠ PCB (8082A)
B-753-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-06	⊠ PCB (8082A)
B-754-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-07	⊠ PCB (8082A)
B-755-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \boxtimes MS/MSD \square EB \square TB	1808654-08	⊠ PCB (8082A)
B-755-082318-1 4FT	8/23/2018	Soil □ Concrete	\boxtimes FD \square MS/MSD \square EB \square TB	1808654-09	⊠ PCB (8082A)
B-756-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-10	⊠ PCB (8082A)
B-757-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-11	⊠ PCB (8082A)
B-758-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-12	⊠ PCB (8082A)
B-759-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-13	⊠ PCB (8082A)
B-760-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-14	⊠ PCB (8082A)
B-761-082318 4FT	8/23/2018	Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808654-15	⊠ PCB (8082A)
B-762-082318 4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808654-16	⊠ PCB (8082A)
B-763-082318 4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808654-17	⊠ PCB (8082A)
SW-497-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808654-18	⊠ PCB (8082A)
SW-498-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808654-19	⊠ PCB (8082A)

Evaluated	Eval Not	Data	Evaluation Criteria
	Required	Qualified	
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria	
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)	
\boxtimes			Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)	
	\boxtimes		Laboratory duplicate RPDs (if performed)	
\boxtimes		\boxtimes	Field duplicate RPDs (if collected) – Primary/Field Duplicate are samples 08 and 09; Aroclor 1242 = 0.1 / ND (<0.06). Results qualified as estimates (J/UJ) based on professional judgment.	
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)	
\boxtimes			Method blank results	
	\boxtimes		Field/equipment blank results (if collected)	
	\boxtimes		Trip blank results	
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)	
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)	
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.	
\boxtimes			Percent solids	
	\boxtimes		Mass spectrometer tuning (GC/MS only)	
	\boxtimes		Internal standard performance (GC/MS only)	
	\boxtimes		Interference check sample results (metals only)	
	\boxtimes		ICP serial dilution results (metals only)	
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01-05, 10-11, 14, 18, and 19, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.	

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808654

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-755-082318 4FT	PCBs	Aroclor 1242	0.1	mg/kg	0.1 J	DU
B-755-082318-1 4FT	PCBs	Aroclor 1242	0.06 U	mg/kg	0.06 UJ	DU

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808655**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
SW-499-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808655-01	⊠ PCB (8082A)
SW-500-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-02	⊠ PCB (8082A)
SW-501-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-03	⊠ PCB (8082A)
SW-502-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-04	⊠ PCB (8082A)
SW-503-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808655-05	⊠ PCB (8082A)
SW-504-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-06	⊠ PCB (8082A)
SW-505-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-07	⊠ PCB (8082A)
SW-506-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-08	⊠ PCB (8082A)
SW-507-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-09	⊠ PCB (8082A)
SW-508-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD ⋈ MS/MSD □ EB □ TB	1808655-10	⊠ PCB (8082A)
SW-508-082318-1 0-4FT	8/23/2018	⊠ Soil □ Concrete	⊠ FD □ MS/MSD □ EB □ TB	1808655-11	⊠ PCB (8082A)
SW-671-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808655-12	⊠ PCB (8082A)
SW-672-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-13	⊠ PCB (8082A)
SW-673-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808655-14	⊠ PCB (8082A)
SW-674-082318 0-4FT	8/23/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808655-15	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
\boxtimes			Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes		\boxtimes	Field duplicate RPDs (if collected) – Primary/Field Duplicate are samples 10 and 11; Aroclor 1242 RPD= above maximum; results qualified as estimates (J).
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For all samples (01-15), only reporting limits raised were for detected Aroclors. No impact on data sensitivity. RLs for all ND results below PALs.

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808655

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
SW-508-082318 0-4FT	PCBs	Aroclor 1242	0.4	mg/kg	0.4 J	DU
SW-508-082318-1 0-4FT	PCBs	Aroclor 1242	0.2	mg/kg	0.2 J	DU

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory — Laboratory Work Order Number **1808723**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-100-082718 2ft	8/27/2018	⊠ Soil □ Concrete	\square FD \boxtimes MS/MSD \square EB \square TB	1808723-01	⊠ PCB (8082A)
B-100-082718-1 2ft	8/27/2018	⊠ Soil □ Concrete	⊠ FD □ MS/MSD □ EB □ TB	1808723-02	⊠ PCB (8082A)
B-105-082718 2ft	8/27/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-03	⊠ PCB (8082A)
B-110-082718 2ft	8/27/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-04	⊠ PCB (8082A)
SW-100-082718 0-2ft	8/27/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-05	⊠ PCB (8082A)
SW-105-082718 0-2ft	8/27/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-06	⊠ PCB (8082A)
W-14 0-1	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-07	⊠ PCB (8082A)
W-14 1-2	8/17/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808723-08	⊠ PCB (8082A)
W-17 1-2	8/17/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808723-09	⊠ PCB (8082A)
W-17 0-1	8/17/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808723-10	⊠ PCB (8082A)
W-33B 0-1	8/17/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808723-11	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes		\boxtimes	Holding times/Sample preservation – Samples 07-11 were extracted 10 days after collection (submitted to lab 10 days after collection). While the extractions were within the method hold time (unspecified for extraction), extraction was performed beyond the QAPP 7-day hold time; therefore, results are considered estimates (qualified J/UJ).
\boxtimes			Surrogate recoveries – DCB surrogate above QC limit (Primary column) for sample 02 in diluted run. Detected results for Sample 02 Aroclors 1242 and 1260 are considered estimates (J qualified). (Detected result for Aroclor 1254 sample 02 diluted run came from confirmation column; no qualification to data). Surrogate recoveries for samples 05 (secondary analytical run only) and 06, 08, and 10 (primary runs) diluted below MRL. (No qualification indicated).
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes		\boxtimes	Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample) – MS and MSD recoveries for sample 01, Aroclors 1016 and first column 1260 were above QC limit; detected results for sample 01 considered estimates (J qualified).
	\boxtimes		Laboratory duplicate RPDs (if performed)
\boxtimes			Field duplicate RPDs (if collected)
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – For samples 01-05, 07, and 11, only reporting limits raised were for detected Aroclors. No impact on data sensitivity. For samples 06, 08, and 10, all results reported from diluted runs, with RLs raised. RLs for all ND results below PALs (25 mg/kg for PCBs).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808723

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-100-082718 2ft	PCBs	Aroclor 1242	1.6	mg/kg	1.6 J	AM
		Aroclor 1254	5.2	mg/kg	5.2 J	AM
		Aroclor 1260	0.9	mg/kg	0.9 Ј	AM
B-100-082718-1 2ft	PCBs	Aroclor 1242	1.9	mg/kg	1.9 J	SA
		Aroclor 1260	1.0	mg/kg	1.0 J	SA
W-14 0-1	PCBs	Aroclor 1242	1.6	mg/kg	1.6 J	HT
		Aroclor 1254	8.7	mg/kg	8.7 J	HT
		Aroclor 1260	1.1	mg/kg	1.1 J	HT
		All remaining aroclors	0.06 U	mg/kg	0.06 UJ	HT
W-14 1-2	PCBs	Aroclor 1242	1.7	mg/kg	1.7 J	HT
		Aroclor 1254	17.8	mg/kg	17.8 J	HT
		Aroclor 1260	2.9	mg/kg	2.9 Ј	HT
		All remaining aroclors	1.1 U	mg/kg	1.1 UJ	HT
W-17 1-2	PCBs	Aroclor 1254	1.0	mg/kg	1.0 J	HT
		All remaining aroclors	0.06 U	mg/kg	0.06 UJ	НТ
W-17 0-1	PCBs	Aroclor 1254	42.9	mg/kg	42.9 J	HT
		All remaining aroclors	2.9 U	mg/kg	2.9 UJ	НТ

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
W-33B 0-1	PCBs	Aroclor 1254	0.4	mg/kg	0.4 J	HT
		Aroclor 1260	0.07	mg/kg	0.07 J	HT
		All remaining aroclors	0.05 U	mg/kg	0.05 UJ	HT

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
ЕВ	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808724**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample	Analyses
	Collected			ID	
B-872-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-01	⊠ PCB (8082A)
B-876-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-02	⊠ PCB (8082A)
B-888-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-03	⊠ PCB (8082A)
B-889-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-04	⊠ PCB (8082A)
B-890-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-05	⊠ PCB (8082A)
B-891-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-06	⊠ PCB (8082A)
B-892-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-07	⊠ PCB (8082A)
B-893-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-08	⊠ PCB (8082A)
B-894-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-09	⊠ PCB (8082A)
B-895-082718-C	8/27/2018	☐ Soil ⊠ Concrete	\square FD \square MS/MSD \square EB \square TB	1808724-10	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes		\boxtimes	Surrogate recoveries – TMX surrogate below QC limit (Primary column) for sample 06. Results for sample 06 are considered estimates (UJ qualified).
\boxtimes			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)
\boxtimes			Acceptable continuing calibration performed on instrument, and analytical sequence (evaluated for extreme QC failures)
\boxtimes			Sulfur Removal (pesticide and PCB aroclors only) – not performed/required on any sample in data set.
\boxtimes			Percent solids
	\boxtimes		Mass spectrometer tuning (GC/MS only)
	\boxtimes		Internal standard performance (GC/MS only)
	\boxtimes		Interference check sample results (metals only)
	\boxtimes		ICP serial dilution results (metals only)
\boxtimes			Reporting limits and sample results (limited to evaluating dilutions and reanalysis) – No dilutions performed. RLs (all concrete samples) below soil Project Action Limits (PAL).

Data Validation Performed and Documented by:

Veronica J. Champagne, Data Validator

Table 1 Summary of Qualified Data ESS Laboratory Report 1808724

Sample	Analysis	Compound	Original Result	Units	Data Validation- Based Result	Reason Code
B-891-082718-C	PCBs	All Aroclors	ND (0.2 U)	mg/kg	0.2 UJ	SB

mg/kg = milligrams per kilogram or parts per million (ppm) Bold indicates detected final concentration

Table 2 Qualifier and Reason Code Definitions

Qualifier Codes	Definition
J	Estimated detected result
UJ	Estimated reporting limit (non-detected result)
U	Non-detected result
R	Unusable result
Reason Codes	Definition
AM	MS or MSD recovery above QC limits
BM	MS or MSD recovery below QC limits (If associated with R qualifier, recovery was below 10%)
CCV	QC issue identified with Continuing Calibration Verification
CS	LCS or LCSD recovery or RPD outside QC limits
DC	Dual column RPD above QC limit.
DU	Field or laboratory duplicate results outside QC limits
EB	Equipment blank contamination
HT	Sample analyzed past holding time
ICC	QC issue identified with Initial Calibration
ICV	QC issue identified with Initial Calibration Verification
MB	Method blank contamination
MR	MS/MSD RPD above QC limit
OC	Concentration over instrument calibration range. Sample re-run at further dilution, with result within calibration range reported from secondary run.
PR	Preservation Issue
RL	Detected concentration above MDL but below Reporting Limit (as reported by laboratory)
SA	Surrogate recovery above QC limit
SB	Surrogate recovery below QC limit
ТВ	Trip blank contamination

ESS Laboratory – Laboratory Work Order Number **1808745**; Report Issued **October 23, 2018** Summary of Samples Submitted to Laboratory:

Sample ID	Date	Media	QC Sample	Lab Sample ID	Analyses
	Collected				
B-180-082818 2ft	8/28/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808745-01	⊠ PCB (8082A)
B-185-082818 2ft	8/28/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808745-02	⊠ PCB (8082A)
B-190-082818 2ft	8/28/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808745-03	⊠ PCB (8082A)
SW-155-082818 0-2ft	8/28/2018	⊠ Soil □ Concrete	\square FD \square MS/MSD \square EB \square TB	1808745-04	⊠ PCB (8082A)
B-480-082818 2ft	8/28/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808745-05	⊠ PCB (8082A)
SW-688-082818 0-2ft	8/28/2018	⊠ Soil □ Concrete	□ FD □ MS/MSD □ EB □ TB	1808745-06	⊠ PCB (8082A)
SW-677-082818 0-2ft	8/28/2018	⊠ Soil □ Concrete	☐ FD ☐ MS/MSD ☐ EB ☐ TB	1808745-07	⊠ PCB (8082A)

Evaluated	Eval Not Required	Data Qualified	Evaluation Criteria
\boxtimes			Data completeness
\boxtimes			Holding times/Sample preservation
\boxtimes			Surrogate recoveries –Surrogate recoveries for samples 02 and 03 (secondary analytical run only) and 01 and 06 (primary runs) diluted below MRL. (No qualification indicated).
			Batch laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent differences (RPDs)
	\boxtimes		Batch matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs (if performed on project-specific sample)
	\boxtimes		Laboratory duplicate RPDs (if performed)
	\boxtimes		Field duplicate RPDs (if collected)
\boxtimes			Dual Column RPDs (pesticide and PCB aroclors only)
\boxtimes			Method blank results
	\boxtimes		Field/equipment blank results (if collected)
	\boxtimes		Trip blank results
\boxtimes			Acceptable initial calibration performed on instrument (evaluated for extreme QC failures)